DEPARTMENT OF THE NAVY
NORTHERN DIVISION
NAVAL FACILITIES ENGINEERING COMMAND
PHILADELPHIA PENNSYLVANIA 19112-5094

IN REPLY REFER TO

2 November 1989

MEMORANDUM

FOR THE MEMBERS OF THE TECHNICAL REVIEW COMMITTEE (TRC) REMEDIAL INVESTIGATION/FEASIBILITY STUDY AT NETC NEWPORT, RI

Enclosed is a copy of the minutes from the ninth Technical Review Committee (TRC) meeting held on 12 October 1989 at NETC Newport, RI. Any comments or corrections may be forwarded to Northern Division prior to the next meeting.

The tenth Technical Review Committee Meeting is scheduled for 10:00 on Wednesday 15 November 1989 at NETC Newport, RI. Topics for discussion will include the Final Community Relations Plan, the removal project of oily soils at Melville North Landfill (Site 02) and schedule for fieldwork at McAllister Point Landfill.

If there are any questions concerning the meeting please contact myself or Mr. Russell Fish at (215) 897-6431. It is suggested that you contact Ms. Rachel Marino at NETC Newport if you need directions to the MIC Room of Building #1 (Coddington Cove). Ms. Marino can be reached at (401) 841-3735.

Sincerely,

for T. G. SHECKELS
Head, Restoration Management Section
By direction of the Commanding Officer

DISTRIBUTION
TECHNICAL REVIEW COMMITTEE MEMBERS

US EPA Region I, Ann Fenn
US EPA Region I, Carol Cody
RI DEM, Jeffrey Crawford
RI DEM, Warren S. Angell, II
RI DEM, Joseph Migliori
Narragansett Bay Project, Jennifer Martin
City of Newport, RI, Roy Anderson
Planning Board of Portsmouth, Joe Marshall
Town of Middletown, Fire Chief, Donald Ardito
Town of Middletown, Charles Silvia
NETC Newport, Rachel Marino
NETC Newport, Mary Silvia
NETC Newport, CDR Robert Humphreys

US EPA-ERL, Wayne Munns
NETC Newport, Robert Moore
Hood Enterprises, Inc. Dean Coker
TRC-ECI, Robert Smith
TRC-ECI, Jim Peronto
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EPA-ERL Narragansett, Tim Gleason
US EPA Region I, Douglas Gutro

TECHNICAL REVIEW COMMITTEE MEETING MINUTES

NAVY INSTALLATION RESTORATION PROGRAM
NETC, Newport, Rhode Island

October 12, 1989

TRC Environmental Consultants, Inc.
Contract No. N62472-86-C-1282
TRC Project No. 5383-N81-00

Prepared by:

Robert C. Smith, P.E.
Program Manager
and
James Peronto, P.E.
Project Manager

Prepared for:

Russell Fish
Project Manager
U.S. Navy - Northern Division

TRC

MINUTES OF THE NINTH TRC MEETING

The Ninth Technical Review Committee meeting (TRC) for the Newport Installation Restoration Program (IRP) studies was held at NETC in Newport, Rhode Island from 10:00 a.m. to 11:45 a.m. on October 12, 1989. The primary objective was to discuss the Community Relations Plan, the current funding status, Remedial Investigation Schedule, and a proposed Marine Environmental Impact Assessment for NETC, Newport. The attendees are listed on Attachment A.

Community Relations Plan

Mary Sylvia (Public Affairs Office) presented the Draft of the Community Relations Plan (CRP) for NETC, Newport, RI.

Written comments must be presented to Mary Sylvia (PAO) in approximately two weeks. EPA-Region I will also provide comments on the CRP. The final Community Relations Plan can be published prior to initiation of field investigations at site 01 - McAllister Point Landfill. A press release is proposed for the start of field work. However, a public meeting is not planned.

Current Funding/Schedule

TRC Environmental Consultants, Inc. (TRC-ECI) presented a Cost Proposal to NORTHDIV on August 4, 1989 for the Remedial Investigation Tasks (Task R3 - Site Investigation, Task R4 - Laboratory Analysis and Task R6 - Reports). However, funding limitations required NORTHDIV to request TRC-ECI to prepare a cost proposal for site 01 - McAllister Point Landfill - Task R3 and Task R 4 only. The cost proposal was submitted on September 14, 1989 and negotiations were conducted during the week of September 18, 1989. A contract modification for this work effort was received by TRC on September 29, 1989.

The NORTHDIV expects to be able to restore full funding for the original five-site RI in fall 1989 (FY '90). The negotiations will be conducted in late November 1989.

In-office mobilization efforts are underway. On-site mobilization will begin early November (November 1, 1989). Surveying will being the week of November 6, 1989. Field work is currently scheduled to start on November 13, 1989. A 6- to 8-week program is anticipated.

Site 01 - McAllister Point Landfill was selected based on potential risk and funds available. It was emphasized that an uninterrupted schedule for the remaining sites is expected by NORTHDIV. The work plans have been finalized and approved for all sites.

Melville Marine Issues

NORTHDIV received congressional inquiry (Senator J. Chaffee) regarding apparent slow schedule for site investigations. NORTHDIV prepared a formal reply which was mailed during the week of September 4, 1989.

Soil pile removal will be handled through the NETC-ROIC office. A late fall award is projected. Details will be worked out by NORTHDIV and NETC. Preliminary plans for Melville Marine Marina are under review by RIDEM. Plans call for a marina complex including restaurant and service stores. According to Melville Marine, Inc. (MMI) a formal EIS is not required.

An Environmental Assessment is being performed and permit applications are being prepared for submission. The entire Melville Marine site was studied and contamination was not found. The risks to the environment and aquatic resources due to site development are being evaluated by MMI.

TRC-ECI requested MMI to provide information regarding results of site investigations and environmental assessments to assist in the Remedial Investigation phase of the work.

Tank Closures

NETC has responded to RIDEM Compliance Order regarding Tanks #53 and #56 at Tank Farm 5 (Site 13). No formal reply from RIDEM has been received to date.

Marine Environmental Impacts Assessments for NETC Newport, RI

The Naval Ocean Systems Center (NOSC), San Diego, CA and the Environmental Protection Agency Environmental Research Laboratory EPA-ERL, Narragansett, RI have implemented a Memorandum of Agreement (MOA) to develop cooperative research and monitoring activities related to conducting ecological risk assessments at potentially impacted aquatic sites on or adjacent to Navy facilities. A case study at NCBC Davisville is currently underway.

The Newport (Narragansett Bay) environment is more complex than Davisville.

A planning paper has been prepared for NETC Newport (Attachment B).

Phase I will determine if there are adverse impacts from Navy or non-Navy sources by (1) identifying the hydrodynamic and sediment transport characteristics of the East Passage using water quality mapping techniques; (2) characterizing the sediment and water quality in regions directly adjacent to waste disposal sites, other "hot spots", and clean reference areas; and (3) evaluating the biological impact from exposure to aquatic organisms.

Follow-On Work - Work for Phase II and Phase III will be dependent on the results obtained from Phase I.

Generally Phase II would be developed to confirm environmental impact and/or determine extent. A long-term monitoring plan would be prepared.

Phase III would be performed to evaluate effectiveness of remediation (if required).

Marine Environmental Survey capabilities of NOSC were described:

- Monitoring Craft (40-foot) containing laboratory facilities and sensors to monitor pH, O_2, conductivity, temperature, flow rate, oils, trace metals, etc.

- A digitized map system for local area could be developed and calibrated. The survey could evaluate large areas and then focus on "hot spots".

Next Meeting

The next TRC meeting is scheduled for Wednesday, November 15, 1989.

TRC

ATTACHMENT A

TECHNICAL REVIEW COMMITTEE MEETING 10/12/95
NETC NEWPORT, RI

JIM VALENTI	NORTHDIV NAVFACENGCOM	[redacted]
Bob Johnston	Naval Ocean System Center	[redacted]
WAYNE MUNNS	SAIC / EPA-NARRAGANSETT	[redacted]
Tim Gleason	SAIC/EPA - Narragansett	[redacted]
Jeff CRAWFORD	RIDEM / AIR & HAZARDOUS Mats	[redacted]
ART CHADWICK	NOSC SAN DIEGO	[redacted]
KEN RICHTER	NOSC San Diego	[redacted]
Douglas Bogue	EPA SUPERFUND COMMUNITY RELATIONS	[redacted]
CHARLES P SILVIA	TOWN OF MIDDLETOWN	[redacted]
Mary Sylvia	NETC - PAO	[redacted]
Rob Moore	NETC Eng	[redacted]
LCDR BOB HUMPHREYS	NETC - APWO	[redacted]
RACHEL MARINO	NETC - Engineering	[redacted]
Valerie M Schneider	Hood Enterprises	[redacted]
[illegible]	[illegible]	[illegible]
Patricia L. Ferrebee	NORTH DIV NAVFACENGCOM	[redacted]
JIM PERONTO	TRC - ECF	[redacted]
ROBERT C. SMITH	TRC - ECI	[redacted]
RUSSELL FISH	NorthDiv. NAVFACENGCOM	[redacted]

ATTACHMENT B

MARINE ENVIRONMENTAL IMPACT ASSESSMENT FOR NETC NEWPORT, RI

BACKGROUND. The Naval Ocean Systems Center (NOSC), San Diego, CA and the Environmental Protection Agency Environmental Research Laboratory EPA-ERL, Narragansett, RI have implemented a Memorandum of Agreement (MOA) (Enclosure (2)) to develop cooperative research and monitoring activities related to conducting ecological risk assessments at potentially impacted aquatic sites on or adjacent to Navy facilities. A case study at NCBC Davisville is currently being executed under this agreement. The risk assessment pilot study at NCBC Davisville is providing valuable information in support of the RI/FS for hazardous waste disposal sites located on NCBC Davisville. This information will be useful for selecting remedial options and implementing a risk management plan for the waste disposal sites.

PURPOSE. Identify an ecological risk assessment framework that can be applied to assess the potential environmental impact, if any, of hazardous waste disposal sites located at NETC Newport. This planning paper is submitted to provide information to initiate discussion on developing a work plan to conduct a marine nvironmental impact assessment study in support of the RI/FS for Newport, RI.

APPROACH: The marine impact assessment for NETC Newport, RI will be broken up into three Phases. Phase I will determine is there an adverse impact or not. Phase II will confirm the nonimpact or evaluate the extent of the impact, and develop a long term monitoring plan. If remediation is required Phase III will be conducted to evaluate the effectiveness of cleanup and determine when acceptable cleanup levels have been reached. The research and monitoring activities to be conducted for Phase I are outlined below.

The potential impacts from hazardous waste disposal sites located on NETC Newport that will be investigated includes the McAllister Point Landfill (site 1), the Melville North disposal sites (sites 2 and 5), and disposal sites on Gould Island. The impact of surface water runoff from NETC on water and sediment quality in Coddington Cove and areas of the East Passage of Narragansett Bay will also be assessed. In addition, other potential non-Navy impacts to the sediment and water quality of th East Passage of Narragansett Bay will be evaluated. These include discharges from municipal and industrial waste treatment plants, non-Navy disposal and landfill areas, storm water discharges, and other sources of nonpoint runoff. These investigations will determine the potential contribution of contaminants from Navy controlled disposal sites on the overall environmental quality of the East Passage of Narragansett Bay. The study will also provide the quantitative information n c ssary to d v lop an effective risk management plan for NETC N wport.

Phase I will determine if there are adverse impacts from Navy or non-Navy sources by (1) identifying the hydrodynamic and sediment transport characteristics of the East Passage using water quality mapping techniques; (2) characterizing the sediment and water quality in regions directly adjacent to waste disposal sites, other "hot spots", and clean reference areas; and (3) evaluating the biological impact from exposure to aquatic organisms.

(1) HYDRODYNAMIC AND SEDIMENT TRANSPORT PROCESSES. Of prime importance in this study is understanding the physical proc sses affecting water and sediment movement. These processes will directly influence the exposure and transport of contaminants from potential sources. The main investigatory tool to be used for this portion of the study will be the Marine Environmental Survey Craft (MESC) system (Lieberman et al. 1989) (Encl. (3)). The MESC system consists of the research vessel ECOS, which is quipped with a complement of physical, chemical, and biological sensors capable of producing real time maps of water quality and hydrodynamic dispersion. By conducting transects in the East Passage during varying tidal conditions the MESC data will provide "snap shots" of hydrodynamic processes and water quality that will b useful for identifying "hot spots" and selecting optimal locations for further monitoring. In addition, the MESC will also be able to provide information on the water quality of other areas of Narragansett Bay which will be extremely useful for evaluating the overall impact of Navy sources on the quality of Narragansett Bay.

(2) SEDIMENT AND WATER QUALITY CHARACTERIZATION. Based on information provided by the MESC system and information on the disposal sites, sediment transects will be selected such that impacts from leachate from the sites, if any, can be evaluated. Sediment quality will be evaluated in the same manner as was used in the NCBC Davisville study (Pesch et. al., 1989) (Encl. (4)). Sediment transects will be taken in areas directly adjacent to Navy HW disposal sites, areas subjected to runoff or discharge from non-Navy sources, and in areas considered as "clean" for reference purposes. The database of sediment quality information already developed for Allen Harbor and reference areas in Narragansett Bay, as part of the Davisville study, will also be available for comparison purposes. The sediments will be analyzed according to the procedures documented by Pesch et al. (1989). The analysis will include an extensive analytical screen on a subset of samples to determine if there are contaminants that are unique to Navy or non-Navy impacted areas. Water quality associated with the transects will also be monitored on a seasonal basis.

(3) BIOLOGICAL RESPONSES. In conjunction with the sediment transects biological responses to quahog clams, soft shell clams, mussels, and amphipods will be evaluated. The procedures for conducting the toxicological evaluation will be the same used in th NCBC Davisville study (Pesch et. al 1989) and will consist of quantifying chemical residues and pathological conditions of

shellfish, determining the toxicological response of amphipods to th sediments, determining differences in scope for growth m asurements made on caged mussels deployed at specific locations, and evaluating biomark r responses from exposur to specific contaminants.

FOLLOW ON WORK. Work for Phase II and Phase III will be dependent on the results obtained from Phase I, but would, in general, follow the format of the scope of work developed for the NCBC Davisville study (NOSC 1988) (Encl. (5)).

FUNDING. Funding for the project would be provided by NORTHDIV with funds from the Defense Environmental Restoration Account (DERA). The actual cost estimate for Phase I of the investigation will be dependent on the level of effort required and the number of samples to be analyzed. For planning purposes the estimat d cost of Phase I would be about $250-350K.

OTHER AGENCY PARTICIPATION. The marine environmental impact assessment for NETC Newport will be developed as a cooperative research project between NOSC and EPA-ERL in accordance with the MOA and in conjunction with the Narragansett Bay Program. Potential involvement of the University of Rhode Island, the Food and Drug Administration, and other universities (Tufts University) will also be pursued.

TIMING: In order to not interfere with currently scheduled work for the study at NCBC Davisville and to allow for adequate planning and development of the sampling design, the proposed study would begin during April-May of 1990. The MESC deployment period would consist of 30-45 days and would be scheduled to coincide with other sampling events. Seasonal sampling would also b conducted. A detailed work plan, QA/QC plan, health and saf ty plan, and data management plan will be produced before initiation of field work. An interim report will be provided approximately six months after initiation of Phase I. The final report, covering all work conducted as part of this project will be available for review and publication approximately one year after the initiation of the study. Quarterly progress reports will also b submitted.

POINTS OF CONTACT.

Project Officer:		
Mr. Robert K. Johnston,	**NOSC**	**(619) 553-5330**
	NAVFAC	**(202) 325-8531**
Principal Investigators:		
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Dr. Stephen Lieberman,	**NOSC**	**(619) 553-2778**
Mr. Bart Chadwick,	**NOSC**	**(619) 553-5334**
Mr. Alan Beck,	**Narragansett Bay Program**	**(401) 782-3005**

REFERENCES:

Lieberman, S.H., C. Clavell, and D.R. Bower, 1989. Advanced methods for environmental analysis, The Military Engineer, 81:530, pp. 45-48.

Naval Ocean Systems Center, 1988. Scope of Work for Risk Assessment Pilot Study at NCBC Davisville, RI, NOSC.

Pesch, G., A. Beck, G. Morrison, T.R. Gleason, and C. Mu ller, 1989. Work/quality assurance project plan for risk assessment pilot study at NCBC Davisville, RI. EPA-ERLN.